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18N2/0726

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**NOTICE OF ALLOWANCE
AND ISSUE FEE DUE**

Note attached communication from the Examiner
 This notice is issued in view of applicant's communication filed _____

SERIES CODE/SERIAL NO.	FILING DATE	TOTAL CLAIMS	EXAMINER AND GROUP ART UNIT	DATE MAILED
07/983,367	11/30/92	008	WARE, D	1808 07/26/94
First Named Applicant SASISEKHARAN,		RAMNATH		

TITLE OF
INVENTION PURIFICATION OF HEPARINASE I, II, AND III FROM FLAVOBACTERIUM HEPARINUM (AS AMENDED)

ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN. TYPE	SMALL ENTITY	FEES DUE	DATE DUE
1 MIT5981/6124	435-220.000	C94	UTILITY	YES	\$585.00	10/26/94

THE FEE DUE IS THE AMOUNT IN EFFECT AT THIS TIME. IF THE AMOUNT OF THE ISSUE FEE INCREASES PRIOR TO PAYMENT, APPLICANT WILL BE NOTIFIED OF THE BALANCE OF ISSUE FEE DUE.

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT.

PROSECUTION ON THE MERITS IS CLOSED.

THE ISSUE FEE MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED.

HOW TO RESPOND TO THIS NOTICE:

- I. Review the SMALL ENTITY Status shown above.
If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:
 - A. If the status is changed, pay twice the amount of the FEE DUE shown above and notify the Patent and Trademark Office of the change in status, or
 - B. If the Status is the same, pay the FEE DUE shown above.
- II. Part B of this notice should be completed and returned to the Patent and Trademark Office (PTO) with your ISSUE FEE. Even if the ISSUE FEE has already been paid by charge to deposit account, Part B should be completed and returned. If you are charging the ISSUE FEE to your deposit account, Part C of this notice should also be completed and returned.
- III. All communications regarding this application must give series code (or filing date) and serial number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to contrary.

If the SMALL ENTITY is shown as NO:

- A. Pay FEE DUE shown above, or
- B. File verified statement of Small Entity Status before, or with, pay of 1/2 the FEE DUE shown above.

IMPORTANT REMINDER: Patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



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SERIAL NUMBER	FILED DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NO.
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07/983,367 11/30/92 SASISEKHARAN

R 111528176124

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WARE, D

ART UNIT PAPER NUMBER

1802 DATE MAILED:

07/26/94

13/E

NOTICE OF ALLOWABILITY

PART I.

- This communication is responsive to 06-14-84
- All the claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice Of Allowance And Issue Fee Due or other appropriate communication will be sent in due course.
- The allowed claims are 1-3 & 5-9
- The drawings filed on _____ are acceptable.
- Acknowledgment is made of the claim for priority under 35 U.S.C. 119. The certified copy has [] been received. [] not been received. [] been filed in parent application Serial No. _____, filed on _____.
- Note the attached Examiner's Amendment.
- Note the attached Examiner Interview Summary Record, PTO-413.
- Note the attached Examiner's Statement of Reasons for Allowance.
- Note the attached NOTICE OF REFERENCES CITED, PTO-892.
- Note the attached INFORMATION DISCLOSURE CITATION, PTO-1449.

PART II.

A SHORTENED STATUTORY PERIOD FOR RESPONSE to comply with the requirements noted below is set to EXPIRE THREE MONTHS FROM THE "DATE MAILED" indicated on this form. Failure to timely comply will result in the ABANDONMENT of this application. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

- Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL APPLICATION, PTO-152, which discloses that the oath or declaration is deficient. A SUBSTITUTE OATH OR DECLARATION IS REQUIRED.
- APPLICANT MUST MAKE THE DRAWING CHANGES INDICATED BELOW IN THE MANNER SET FORTH ON THE REVERSE SIDE OF THIS PAPER.
 - Drawing informality are indicated on the NOTICE RE PATENT DRAWINGS, PTO-948, attached hereto or to Paper No. 4. CORRECTION IS REQUIRED.
 - The proposed drawing correction filed on _____ has been approved by the examiner. CORRECTION IS REQUIRED.
 - Approved drawing corrections are described by the examiner in the attached EXAMINER'S AMENDMENT. CORRECTION IS REQUIRED.
 - Formal drawings are now REQUIRED.

Any response to this letter should include in the upper right hand corner, the following information from the NOTICE OF ALLOWANCE AND ISSUE FEE DUE: ISSUE BATCH NUMBER, DATE OF THE NOTICE OF ALLOWANCE, AND SERIAL NUMBER.

Attachments:

- Examiner's Amendment
- Examiner Interview Summary Record, PTO-413
- Reasons for Allowance
- Notice of References Cited, PTO-892
- Information Disclosure Citation, PTO-1449

- Notice of Informal Application, PTO-152
- Notice re Patent Drawings, PTO-948
- Listing of Bonded Draftsmen
- Other

DAVID M. NAFF
PRIMARY EXAMINER
ART UNIT 1802

Serial Number: 07/983367

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Art Unit: 1808

An Examiner's Amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 C.F.R. § 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the Issue Fee.

Authorization for this Examiner's Amendment was given in a telephone interview with Patrea Pabst on July 18, 1994.

In the title:

line 1, delete ", COMPOSITION AND SPECIFICITY" and,
line 2, underline "FLAVOBACTERIUM HEPARINUM" ;

In the abstract:

cancel the complete abstract and insert

-- A purified heparinase I, II and III free of lyase activity and each having a molecular weight of 42,800 84,100, 70,800, respectively, are produced by culturing Flavobacterium heparinum. The kinetic properties of the heparinases have been determined as well as the conditions to optimize their activity and stability.--

In the claims:

claim 1,

line 1, cancel "A purified" and insert --An isolated-- ,

line 2, cancel "present in Heparinum flavobacterium" and insert --from *Flavobacterium heparinum*-- ,

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Serial Number: 07/983367

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Art Unit: 1808

claim 2,

line 1, cancel "A purified" and insert --An
isolated--,

line 2, cancel "which is expressed in Heparinum
flavobacterium" and insert --from *Flavobacterium heparinum*-- ,

claim 6,

bridging lines 2-3, cancel "Heparinum
flavobacterium" and insert --Flavobacterium heparinum-- .

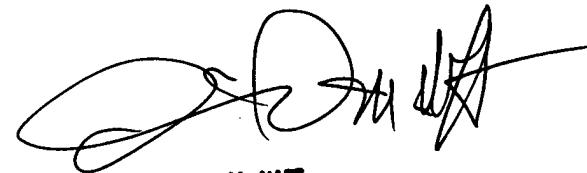
Any inquiry concerning this communication or
earlier communications from the examiner should be directed to
Deborah K. Ware telephone number is (703) 308-4245.

Any inquiry of a general nature or relating to the status of
this application should be directed to the Group receptionist
whose telephone number is (703) 308-0196.



Deborah K. Ware

July 19, 1994



DAVID M. NAFF
PRIMARY EXAMINER
ART UNIT 1808